

GND 🕕

U5B MCXN947VDFT



U5C MCXN947VDFT

P2_0/SDHC0_D5	H2	P2_0/TRIG_IN5/FC9_P6/SDHC0_D5/SCT0_IN0/PWM1_A3/FLEXI00_D8/EZH_PI020/FLEXSPI0_B_SS1_b/SAI0_RX_BCLK/ESPI0_RST
P2_1/SDHC0_D4		P2_1/TRACE_CLK/SDHC0_D4/SCT0_IN1/PWM1_B3/FLEXIO0_D9/EZH_PI021/FLEXSPI0_B_DQS/SINC0_MCLK_0UT0/Salo_RX_FS/ESPI0_NOTIFY
P2_2/SDHC0_D1		P2_2/clk0/y5016_01/SCT0_0170/PWM1_a52/fleXi00_016/ELXi0022/fleXSPI0_B_SS0_b/SiNC0_MCLk0/SAI0_TXD0/ESPI0_CSn/USB0_IBE_RXDIFF_b_TEST/WUU0_IN16
P2_3/SDHC0_D0		F2_3/CLROUT/F9_F3/SDMCU_DIT/SCIO_UDIT/FWMT_AZ/FIEAUO_LDIT/SCH_FIUZZ/FIEASFIU_B_3SOLD/SINCU_DIT/SUCLED/SAID_LDIT/SAID_LDIT/SAID
P2_4/SDHC0_CLK	1/7	
P2_5/SDHC0_CMD	1/4	P2_4/FC9_P0/SDHC0_CLK/SCT0_DUT2/PWM1_A1/FLEXI00_D12/EZH_PI024/FLEXSPI0_B_DATA0/SINC0_MCLK1/SAI0_RXD1/ESPI0_DATA0/USB0_PUE_PULLUP_DP_TEST/WUU0_IN17
P2_6/SDHC0_D3	V2	P2_5/TRIG_OUT3/FC9_P2/SDHC0_CMD/SCT0_OUT3/PWM1_B1/FLEXIO0_D13/EZH_PI025/FLEXSPI0_B_DATA1/SINC0_MBIT1/SAI0_TXD1/ESPI0_DATA1/USB0_SRE_LOWSPEED_TEST
P2_7/SDHC0_D2	1.2	P2_6/TRIG_IN4/FC9_P4/SDHC0_D3/SCT0_OUT4/PWM1_A0/FLEXIO0_D14/EZH_PIO26/FLEXSPIO_B_DATA2/SINC0_MCLK2/SAIO_TX_BCLK/ESPIO_DATA2/USB0_PUIMPSEL_PULLUP_DP_TEST
P2_8/SDHC0_D7	MO	P2_7/TRIG_IN5/FC9_P5/SDHC0_D2/SCT0_OUT5/PWM1_B0/FLEXIO0_D15/EZH_PI027/FLEXSPI0_B_DATA3/SINC0_MBIT2/SAI0_TX_FS/ESPI0_DATA3/USB1_TST0_PLL_OUT_DIV
P2_9/SDHC0_D6	144	P2_8/TRACE_DATAO/SDHCO_D7/SCTO_IN2/PWM1_XO/FLEXIOO_D16/EZH_PIO28/FLEXSPIO_B_DATA4/SINCO_MCLK3/SAI1_TXDO
		P2_9/TRACE_DATA1/SDHC0_D6/SCT0_IN3/PWM1_X1/FLEXIO0_D17/EZH_PI029/FLEXSPI0_B_DATA5/SINC0_MBIT3/SAI1_RXD0
P2_10/TRACE_DATA2		P2_10/TRACE_DATA2/SCT0_IN4/PWM1_X2/FLEXIO0_D18/EZH_PI031/FLEXSPI0_B_DATA6/SINC0_MCLK4/SAI1_RXD1
P2_11/TRACE_DATA3		
		P2_11/TRACE_DATA3/SCTO_IN5/PWM1_X3/FLEXIOO_D19/EZH_PIO30/FLEXSPIO_B_DATA7/SINCO_MBIT4/SAI1_TXD1

CLASSIFICATION: INTERNAL USE ONLY

DESIGNER: YOURI TILS

CTO SYSTEM INNOVATIONS / MOBILE ROBOTICS DOMAIN

OMAIN

NXP SEMICONDUCTORS B.V.
Sheet: /MCU IO Part 1/
File: mcu io 1.kicad sch

Title: MR-MCXN-T1 Sensor hub

 Size: A3
 Date: 2025-01-17
 Rev: X0

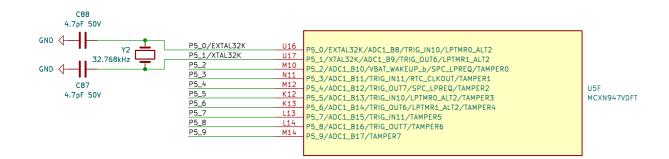
 KiCad E.D.A. 8.0.8
 Id: 3/9

U5D MCXN947VDFT

P3_0/SmartDMA_PI00	B17	P3_0/TRIG_IN0/FC7_P3/CT_INP16/PWM0_A0/FLEXIO0_D8/EZH_PI00/FLEXSPI0_A_SS0_b/PF_QSPI_CS0_DIS/TP_HWRITE/WUU0_IN22
P3_1/FC6_P0	C15	P3.1/TRIG_IN1/F66_P0/Fc7_P6/CT_INP17/PWM0_B0/FLEXIO0_D9/EZH_P101/FLEXSP10_A_SS1_b/PF_QSPL_CS1_D15/FREQME_CLK_OUT0
P3_2/FC7_P0	D15	13_1/ INCLINITION OF TOTAL OF THE TOTAL OF T
P3_3/FC7_P1	D16	P3.3/FC7_P1/CT4_MATAT/PWMC_A0/FLEXHOLD 11/EZH_FIOZ/SIMI_FU
P3_4/FC7_P2	F14	P3_4/FC_P2/CL_INBI/PMM0_A1/FLEXIOU_D11/EZH_PI03/SIMI_RSI
P3_5/FC7_P3	G14	F3_4/FC/_F2/C_INF16/FWM0_X2/FLEXIOU_D12/E2F_FI04/SIMI_CLK F3_5/FC/_F3/CT_INP19/FWM0_X3/FLEXIOU_D13/EZH_F105/SIMI_LIO
P3_6/FC6_P1	D17	F3_3/FC/_F3/C_INFIS/FWMO_A3/FLEXIOU_DI3/SET_FID3/SIMI_IO F3_6/CLKOUT/FC6_P1/CM_M3Z/FLEXIOU_DI3/SET_FID3/SIMI_IO F3_6/CLKOUT/FC6_P1/CM_M3Z/FLEXIOU_DI3/FLEXIOU_DI3/FETH_PIO6/FLEXSPIO_A_DQS/SIM1_VCCEN/SAI1_MCLK/PF_QSPLCS_n/FREQME_CLK_OUT1/ADCO_CONV_CLK
P3_7/SmartDMA_PI07	D14	
P3_8/SmartDMA_PI08	E14	P3_7/FC6_P6/FC7_P1/CT4_MAT3/PWMO_B1/FLEXIOD_D15/FZH_P107/FLEXSPIO_A_SCLK/SIMO_WCLK/PF_QSPL_SCKIN,TP_LLOAD_EN
P3_9/SmartDMA_PI09	F15	P3.8/FC6_P4/FC7_P0/CT_INP4/PWM0_A2/FLEXIOD_D16/FZH_PI08/FLEXSPIO_A_DATA0/SIMO_PD/SAIO_TX_BCLK/PF_QSPL_DATA0/TP_ADDR0/WUU0_IN23
P3_10/FC6_P2	F17	P3_9/FC6_P5/FC7_P2/CT_INP5/PWM0_B2/FLEXIOD_D17/EZH_PIO9/FLEXSPIO_A_DATA1/SIMO_RST/SAIO_TX_FS/PF_QSPL_DATA1/TP_ADDR1
P3_11/FC6_P3	F16	P3.10/FC6_P2/FC7_P4/CT1_MAT0/PWM0_A3/FLEXIOD_018/EZH_P1010/FLEXSP10_A_DATA2/SIM0_CLK/SA10_TXD0/PF_QSPL_DATA2/USB1_TSTL_TX_HS_MODE/TP_ADDR2
P3_12/FC7_P4	G16	P3.11/FC6_P3/FC7_P5/CT1_MAT1/PWM0_B3/FLEXIO0_D19/E2H_PI011/FLEXSPI0_A_DATA3/SIM0_I0/SAI0_RXD0/PF_QSPL_DATA3/USB1_TSTLTX_LS_EN/TP_ADDR3/WUU0_IN24
P3_13/FC6_P5	H16	P3.12/FC7.P4/FC6_P4/CT1_MAT2/PWM1_A0/FLEXIO0_D20/EZH_PI012/FLEXSPI0_A_DATA4/SAIO_RXD1/USB1_TSTLTX_ENAB/ADC0_CONV_DATA0
P3_14/FC8_P0	H17	P3_13/FC7_P5/FC6_P5/CT1_MAT3/PWM1_B0/FLEXIO0_D21/EZH_PI013/FLEXSPI0_A_DATA5/SAIO_TXD1/PF_SPI_CSO_n/USB1_TSTI_TX_HIZ/ADCO_CONV_DATA1
P3_15/FC8_P1	H15	P3_14/FC8_P0/CT_INP6/PWM1_A1/FLEXIOO_D22/EZH_PIO14/FLEXSPIO_A_DATA6/SAIO_RX_BCLK/PF_SPL_DATA/USB1_TSTI_TX_DP/ADCO_CONV_DATA2/WUU0_IN25
P3_16/FC8_P2	J15	P3_15/FCB_P1/CT_INP7/PWM1_B1/FLEXIO0_D23/EZH_PIO15/FLEXSPIO_A_DATA7/SAIO_RX_FS/PF_SPL_SCKIN/USB1_TSTL_TX_DN/ADC0_CONV_DATA3
P3_17/FC8_P3	K15	P3_16/FC8_P2/CT_INP8/PWM1_A2/FLEXIO0_D24/EZH_PI016/SIM0_CLK/SAI1_TX_BCLK/USB1_TSTO_RX_FS_RXD/ADC0_CONV_DATA4
P3_18/FC6_P6	K16	P3_17/FCB_P3/CT_INP9/PWM1_B2/FLEXIO0_D25/EZH_PI017/SIM0_I0/SAI1_TX_FS/USB1_TSTO_RX_HS_RXD/ADC0_CONV_DATA5/WUU0_IN26
P3_19/FC7_P6	K17	P3_18/FC6_P6/CT2_MATO/PWM1_X0/FLEXI00_D26/EZH_PI018/SAI1_RX_BCLK
P3_20	M17	P3_19/FC7_P6/CT2_MAT1/PWM1_X1/FLEXI00_D27/EZH_PI019/SAI1_RX_FS
P3 21/FLEXIO0 D29	L16	P3_20/TRIG_OUTO/FC8_P4/FC6_P0/CT2_MAT2/PWM1_A3/FLEXIOO_D28/EZH_PI020/SIM0_PD/SAI1_TXD0/PF_SPL_CS0_DIS_n/USB1_TST0_RX_DISCON_DET/ADC0_CONV_DATA6/WUU0_IN27
P3_22/FC8_P6	M16	P3_21/TRIG_OUT1/FC8_P5/FC6_P1/CT2_MAT3/PWM1_B3/FLEXIO0_D29/EZH_PIO21/SIMO_RST/SAI1_RXD0/PF_SPI_CS1_DIS_n/USB1_TST0_RX_SQUELCH/ADC0_CONV_DATA7
P3_23	M15	P3_22/FC8_P6/FC6_P2/CT_INP10/PWM1_X2/FLEXI00_D30/EZH_PI022/SIM0_VCCEN/SAI1_RXD1
, 5_25	1113	P3_23/FC6_P3/CT_INP11/PWM1_X3/FLEXI00_D31/EZH_PI023/SAI1_TXD1

U5E MCXN947VDFT

P4_0/FC2_P0	P1	
P4_1/FC2_P1	P2	P4_0/TRIG_IN6/FC2_P0/CT_INP16/EZH_PI024/PLU_IN0/SINC0_MCLK3/WUU0_IN18
P4_2/FC2_P2	T1	P4_1/TRIG_IN7/FC2_P1/CT_INP17/EZH_PI025/PLU_IN1
		P4_2/DACO_OUT/ADCO_A4/ADC1_A4/CMP0_IN4N/CMP1_IN4N/CMP2_IN4N/TRIG_IN6/FC2_P2/CT_INP12/EZH_PI026/PLU_IN2/SINCO_MBIT3
P4_3/FC2_P3	U1	P4_3/DAC1_OUT/ADC0_B4/ADC1_B4/CMP0_IN5N/CMP1_IN5N/CMP2_IN5N/TRIG_IN7/FC2_P3/CT_INP13/EZH_PI027/PLU_IN3/WUU0_IN19
P4_4	M6	P4_4/FC2_P4/CT_INP14/EZH_PI028/PLU_IN4/SINC0_MCLK4
P4_5	M8	P4_5/FC2_P5/CT_INP15/EZH_PI029/PLU_IN5/SINC0_MBIT4
P4_6	N7	P4_6/TRIG_OUT4/FC2_P6/CT_NP18/EZH_PI030/PLU_CLK
P4_7		P4 7/CT INP19/EZH P1031
P4_12/CANO_RXD	T6	P4_12/0PAMP0_INPO/ADC0_A5/ADC1_A5/USB0_VBUS_DET/FC2_P0/CT4_MAT0/FLEXIOO_D20/PLU_OUT0/SINCO_MCLKO/CAN0_RXD/MTR_START_BURNIN/WUU0_IN20
P4_13/CANO_TXD	T7	
P4_14	N8	P4_13/OPAMPQ_INP1/ADC0_B5/ADC1_B5/TRIG_IN8/FC2_P1/USB1_ID/CT4_MAT1/FLEXIOO_D21/PLU_OUT1/SINCO_MBIT0/CANO_TXD
P4_15/CAN1_RXD	T8	P4_14/CT4_MAT2/FLEXI00_D22/PLU_OUT2
P4_16/CAN1_TXD	R8	P4_15/OPAMPO_OUT/ADCO_A1/CMPO_IN4P/TRIG_OUT4/USB1_VBUS_DIG/CT4_MAT3/FLEXIOO_D23/PLU_OUT3/SINCO_MCLK_OUT0/CAN1_RXD/WUU0_IN21
P4_17	R9	P4_16/OPAMP1_INPO/ADCO_A6/FC2_P2/USB1_OTG_PWR/CT3_MATO/FLEXIOO_D24/PLU_OUT4/SINCO_MCLK1/CAN1_TXD
P4_18	N10	P4_17/OPAMP1_INP1/ADC0_B6/TRIG_IN9/FC2_P3/USB1_OTG_OC/CT3_MAT1/FLEXIO0_D25/PLU_OUT5/SINC0_MBIT1
		P4_18/CT3_MAT2/FLEXIOO_D26/PLU_OUT6
P4_19	R10	P4_19/OPAMP1_OUT/ADCO_B1/CMP1_IN4P/TRIG_OUT5/CT3_MAT3/FLEXIOO_D27/PLU_OUT7/SINCO_MCLK_OUT1
P4_20/FC2_P4	T10	P4_20/OPAMP2_INPO/ADC1_A6/TRIG_IN8/FC2_P4/CT2_MAT0/FLEXIO0_D28/SINC0_MCLK2
P4_21	T11	P4_21/OPAMP2_INP1/ADC1_B6/TRIG_IN9/FC2_P5/CT2_MAT1/FLEXIOO_D29/SINCO_MBIT2
P4_22		P4 22/CT2 MAT2/FLEXIOO D30
P4_23/FC2_P6	1112	P4_23/OPAMP2_OUT/ADCO_82/ADCO_B2/ADC1_B3/CMP2_IN4P/TRIG_OUT5/FC2_P6/CT2_MAT3/FLEXIOO_D31/SINCO_MCLK_OUT2
		14_23/ 01 AHT 2_001/ AUCU_B2/ AUCU_B3/ CHT 2_IN41/ TRIG_0013/ 102_10/ C12_HAT3/ 12LA100_U31/ 3INCU_HCLN_0012



CLASSIFICATION: INTERNAL USE ONLY

DESIGNER: YOURI TILS
CTO SYSTEM INNOVATIONS / MOBILE ROBOTICS DOMAIN
NXP SEMICONDUCTORS B.V.

Sheet: /MCU IO Part 2/ File: mcu_io_2.kicad_sch

Title: MR-MCXN-T1 Sensor hub

Size: A3 Date: 2025-01-17 KiCad E.D.A. 8.0.8

